

Install the Amazon Corretto JDK (Java Development Kit)

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Before you can compile and run any Java programs, you must download and install the JDK (Java Development Kit).

- Used on Amazon Servers
- James Gosling (inventor of Java) works at Amazon

Amazon Corretto is a no-cost, multiplatform, production-ready distribution of the Open Java Development Kit (OpenJDK). Corretto comes with long-term support that includes performance enhancements and security fixes. Corretto is certified as compatible with the Java SE standard and is used internally at Amazon for many production services.

1. Uninstall any JDK's on your system.
2. Download and install the Amazon Corretto Windows 64-bit JDK 17 from
<https://corretto.aws/downloads/latest/amazon-corretto-17-x64-windows-jdk.msi>
3. Test for the correct Java version. At a command prompt: **java -version**

```
C:\Users\Bill.THECOMPUTERGUY>java -version
openjdk version "17.0.3" 2022-04-19 LTS
OpenJDK Runtime Environment Corretto-17.0.3.6.1 (build 17.0.3+6-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.3.6.1 (build 17.0.3+6-LTS, mixed mode, sharing)
```

Integrated Development Environment (IDE)

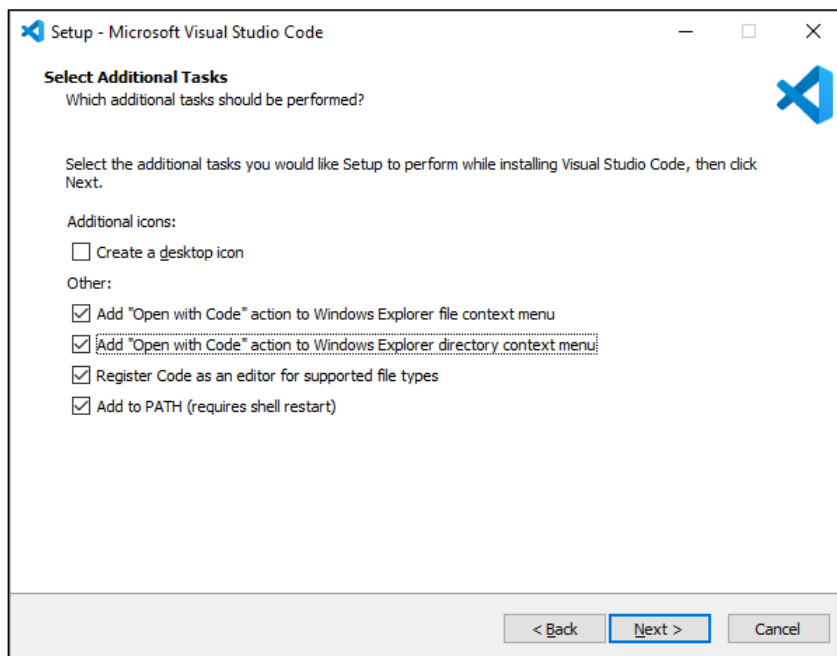
A good IDE (Integrated Development Environment) can help you create good code and can speed up the software engineering process. There are many good Java IDE's available. Visual Studio Code and Geany will be used for most class demonstrations.

Install Visual Studio Code

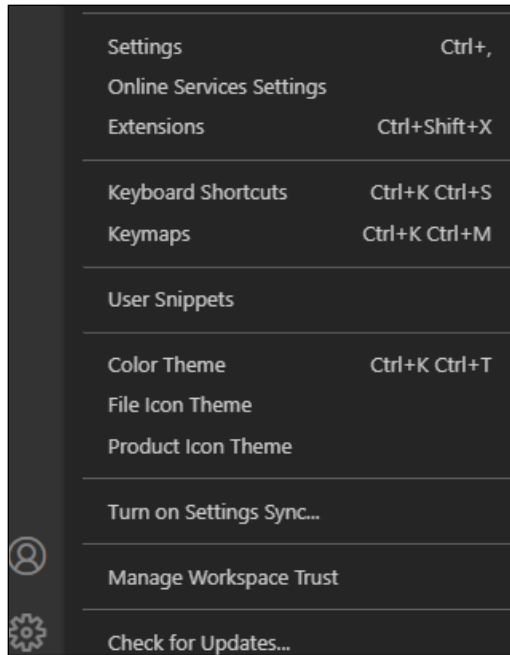
Microsoft Visual Studio Code is an opensource editor sponsored by Microsoft. Microsoft also owns GitHub.

Visual Studio Code integrates with GitHub Desktop. There is extensive information on how to get started with Visual Studio Code on the Visual Studio Code website.

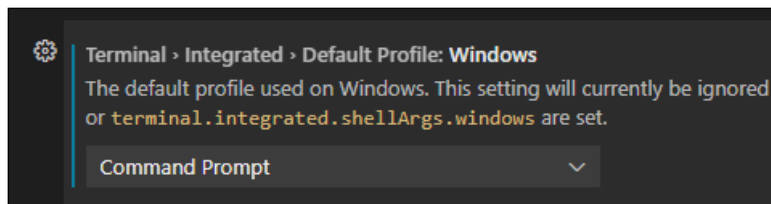
1. Go to <https://code.visualstudio.com/download>.
2. Download and install the **System Installer 64-bit** version of Visual Studio Code for your operating system.
3. During the installation: **Select Additional Tasks**, select the following items. You can create a desktop icon if you wish.



4. Launch Visual Studio Code.
5. Go to the **View** menu, **Extensions** command.
6. Search for **Extension Pack for Java**. Install it.
7. Click the Gear icon on the lower left side. Click **Settings**.



8. Search for **shell**.



9. Change this setting to **Command Prompt**.

Geany and Atom

Are both simple open-source IDE for multiple languages.

1. Go to <https://www.geany.org/>
2. Go to <https://atom.io/>

Other IDE's

At the beginning of your Java journey, it is a good idea to use a simple IDE. You can concentrate more on the code than on learning the interface.

As your grow and gain more experience, you may want to experiment with more complex programming environments like Eclipse or IntelliJ.

